Read Me

(31 January 2006)

Draft versions of the Unified Facilities Criteria (UFC) and AutoCAD drawings will be posted to this site. Content to be posted includes:

- UFC 3-401-01: Utility Monitoring & Control Systems
- UFC 3-401-02: DDC for HVAC & Building-Level Controls
- AutoCAD drawings for UFGS-15951 & UFGS-13801 (A/E/C CADD Std 2.0 compliant)
- AutoCAD drawing Instructions

Additional information is contained in HQUSACE Engineering Construction Bulletins 2004-11 "Utility Monitoring & Control Systems (UMCS) and Direct Digital Control (DDC) Criteria Update" and 2005-17 "LonWorks®, BACnet® and Building Automation Systems Planning" which can be obtained at:

http://www.hnd.usace.army.mil/techinfo/ECbull.htm

If you have a need for information or guidance that is not yet posted please contact:

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Change Record:

31 January 2006:

- 1) Removed "Draft UFC Text" folder and created separate folders for each UFC
- 2) Added UFC 3-401-02 content:
 - a. Chapter 1: Introduction
 - b. Chapter 2: Architecture
 - c. Appendix B: CLD Tutorial
 - d. Appendix D: LonWorks Technology Overview
- 3) Added UFC 3-401-01 content:
 - a. Chapter 2: Architecture
 - b. Chapter 3: IP Networking Tutorial

25 July 2005:

- 1) Added updated *Points Schedule Instructions* and *Symbols/Legend* Drawings in M-00X: Index, Symbols/Legend and Sequences zip file
- 2) Removed Point Schedule Instruction WORD files

18 July 2005:

- 1) Posted UFC 3-401-02 Chapter 5 (excerpted through Points Sched Desc)
- 2) Posted Point Schedule Instruction WORD files.

05 May 2005:

- 1) Posted UMCS ALARM ROUTING SCHEDULE drawing M-651e1
- 2) Posted UMCS RISER DIAGRAM drawing M-651a1
- 3) Posted SCHEDULING SEQUENCE drawing M-601d1
- 4) Posted ALARM GENERATOR AND ALARM HANDLING SEQUENCE drawing M-602d1

20 APRIL 2005:

- 1) Updated Points Schedule Instructions
 - a. all contractor instructions are now in ALL CAPS
 - b. edited content for accuracy and consistency with Point Schedule drawings and with specifications

7 APRIL 2005:

- 1) Updated drawing M-613f1
 - a. column labeled "CPT NAME" is now "nci/CP NAME"
 - b. column labeled "IO TYPE" is now "I/O TYPE"
 - c. under "ALARM CONDITION" column for row SA-P, the alarm condition should say: "* SP IS MORE THAN 20% ABOVE OR BELOW SA-P-SP"
 - d. under "ALARM CONDITION" column for row SA-T, the alarm condition should say: "10 DEG F", NOT "37 DEG F". (Similarly, SI units layer should be "6 DEG C")
- 2) Updated drawing M-002, Added to ABBREVIATIONS AND ACRONYMS
 - a) nci NETWORK CONFIGURATION INPUT
 - b) CP CONFIGURATION PROPERTY
 - c) SNVT STANDARD NETWORK VARIABLE TYPE

20 DECEMBER 2004:

1) Updated drawings posted

13 OCTOBER 2004:

- 1) Added note use of on draft drawings
- 2) Added zip files of DRAFT AutoCAD Drawings
- 3) Added AutoCAD Drawing User's Guide
- 4) Added Points Schedule Instructions
- 5) Added Project Implementation Summary from UFC 3-401-02

1 OCTOBER 2004:

- 1) Added READ ME FIRST
- 2) Added UMCS-DDC System Overview